Ultra Electronics Card Systems is one of the pioneers of ID card printing, having manufactured card printers since 1993. We differentiate ourselves by providing a quality product with enhanced card security features, and by providing the best support and warranty in the business.

Ultra Electronics Card Systems is part of the international aerospace, defence and security group, Ultra Electronics Holdings plc. With 4,000 employees, located mainly across the UK and North America, Ultra Electronics concentrates on obtaining a technology edge in niche markets, with many of our products and technologies being market leaders in their field.

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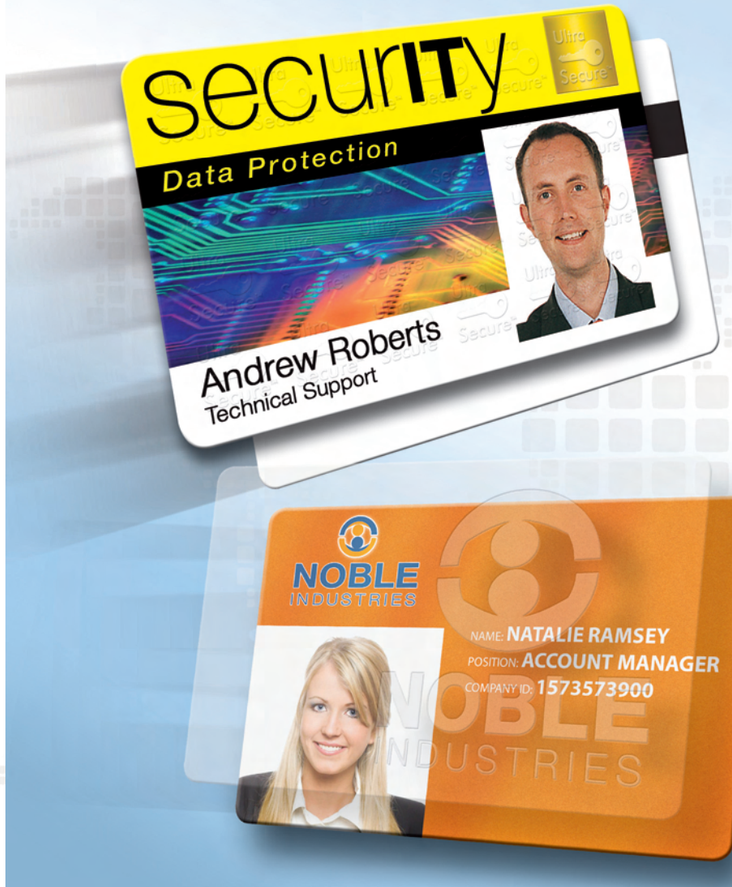
Magicard Secure ID Card Printers



www.magicard.com

Secure ID card printers

Secure ID card printers

MAGICARD Secure ID Card Printers

Whatever your needs for plastic card printing, our wide range of Magicard colour card printers offers you the very best in image quality, security, and innovation for all your card printing solutions.

It's all about the card...

ID or Identity cards, as their name implies, are used to identify individuals. Common applications include company ID cards, access control cards, membership cards, retail loyalty cards and government cards like driving licences.

ID cards are different from many other types of cards we use, such as credit cards, because ID cards are personalised to individual and organisational needs. Personalisation means photos on the card, people's names, organisation names, but can also extend into signatures, barcodes, and other forms of identification. Many cards these days also have electronic means of identification, such as embedded chips and magnetic stripe.

How HoloKote® is printed onto the card.

Colour cards are printed using a thermal transfer YMCKO dye film. After the colour image has been printed onto the card, the clear "O" panel is applied to protect the image from fading or scratching. MAGICARD's thermal transfer printer models have a unique facility called HoloKote for frosting a security image into the clear overcoat during the print process. This is a patented Magicard feature and unlike most other security marks, it involves no extra cost to produce on the card.

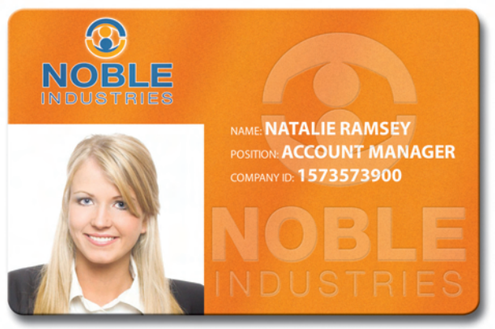
How do HoloKote® and HoloPatch® work together as a visible security feature?

The unique HoloKote feature is daylight visible by tilting the card to view the transparent anti-counterfeiting watermark. For even greater security, HoloPatch cards combined with HoloKote provide a distance-visible security mark allowing a security guard or colleague to easily verify badge authenticity from a distance of six feet or more. It's the ultimate in card security simplicity.

No Security - CLEAR OVERCOAT

Security - STANDARD (Globes) HOLOKOTE

High Security - CUSTOM HOLOKOTE FLEX



Added Visibility - CUSTOM HOLOKOTE with HOLOPATCH

The built-in HoloKote watermark is a user option controlled by driver settings.
Custom HoloKote watermarks are ordered separately.

Printer features.

HoloKote®
The Ultra patented built-in HoloKote security watermark comes free with every Pronto, Enduro, Rio 2e and Tango 2e printer.

HoloKote FLEX™
A fully flexible and custom anti-counterfeiting watermark printed across the entire card surface. Custom security for your cards only.

HoloPatch®
Completely unique to Magicard, HoloPatch cards have a highly reflective gold ‘super diffuser’ seal. When used in conjunction with the HoloKote anti-counterfeiting feature, the security mark is highlighted for distance visibility.

Edge-to-Edge
Edge-to-edge full colour printing produces a high quality 300dpi image right to the edge of the card. Available on all Magicard printers.

Rewritable
Rewritable cards have one glossy side in PVC for colour/monochrome dye sublimation printing and a matte finish rewritable side with a blue or black thermo chromic material that can be printed for up to 500 rewrite cycles. Available as standard on Pronto printer.

Card encoding.

Card encoding allows electronic data on the card to be written to at the same time as printing a card. Magicard ID card printers support a wide range of card encoding in the printer:

- Magnetic stripe cards.
  All printers can be specified with ISO standard 7811 compatible HiCo encoding of magnetic stripe cards.
- Contact smart cards.
- Contactless smart cards (proximity card).

Mag stripe
A dual coercivity HiCo/LoCo mag stripe encoder option which offers encoding of all three tracks with complete user format flexibility.

Contact chip encoding
Optional ISO7816 internal smart card chip encoding contact station can be combined with the Mag stripe Encoder option.

Contactless encoding
Rio 2e, Tango 2e and Prima 4.
Various contactless smart card encoding options.

The best warranty and support in the industry - UltraCoverPlus is our promise to keep you printing.

UltraCoverPlus is your three year unlimited warranty package included with our professional range of card printers. Direct technical support, replacement printheads, and even a loan printer are provided FREE in the event a customer’s machine requires depot service.

Available in the EU, North America and other selected countries.

Warranty subject to the observance of specific conditions of use and maintenance, as well as the use of certified ‘Original Magicard’ dye films.

For more information visit www.magicard.com

Pronto

Hand-fed ID Card Printer:
Simply the best value colour ID card printer.
Now with rewritable technology as standard.

A quality dye-sublimation ID card printer at a great price. Incredibly easy to use with drop-in dye film and hand-fed card loading.

PRINTER	•Single-sided hand-fed and rewritable printer
SECURITY	•HoloKote card forgery protection •4 fixed standard HoloKote patterns •Prints on HoloPatch cards
ENCODING	•Magstripe (optional)
REWRITE	•Print, erase and reprint a single rewritable card up to 500 times.

Pronto Specifications

BADGING SERIES

Printing

Print Technology	Dye sublimation/rewritable.
Print Speed	35 seconds colour, 7 seconds monochrome.
Card Thickness	0.51mm to 1.02mm (20 mil to 40 mil).
Card Capacity	Hand fed - 1 card at a time.

Consumables

Dye Film	**MA100YMCKO** : 100 image YMCKO dye film. **MA300YMCKO** : 300 image YMCKO dye film. **MA600KO** : 600 image black resin dye film with overcoat. **MA1000K** : 1000 image black resin dye film. (various colours available)
Laminates	N/A.
Cards	CR80 and CR79 ISO PVC blank, magnetic stripe, self-adhesive, rewritable and HoloPatch cards.

Security (Use driver settings to activate HoloKote).

Security watermark	Standard HoloKote® (4 standard designs).
Gold seal	HoloPatch® cardstock – ordered separately.

Encoding (Please specify when ordering)

Magnetic stripe	HiCo and LoCo encoder ISO std. 7811.
Smartcard encoder	N/A.
Contactless	N/A.

Printer

Printer interface	USB rev.1.1 (USB 2.0 compatible).
Drivers/software	Windows 2000, 2003, XP, Vista and 7.
Dimensions	**Pronto (Part No: 3649-0001), Pronto MAG (Part No: 3649-0002):** 215mm W x 233mm H x 270mm D (8.4" W x 9.1" H x 10.6" D).
Warranty	2 years limited warranty (EU and North America), Elsewhere 12 months limited warranty.

Enduro

The single to dual-sided upgradable printer for plastic cards.

For added flexibility a simple drop-in upgrade option allows for field upgrade from single to double-side printing for customers whose requirements change in the future.

PRINTER	•Specify single or double-sided as required (Option for double-side upgrade may be ordered later)
SECURITY	•HoloKote card forgery protection •4 fixed standard HoloKote patterns •Prints on HoloPatch cards
ENCODING	•Magstripe (optional)

Enduro Specifications

BADGING SERIES

Printing

Print Technology	Dye sublimation.
Print Speed	35 seconds colour, 7 seconds monochrome.
Card Thickness	0.51mm to 1.02mm (20 mil to 40 mil).
Card Capacity	100 card feeder, 30 card stacker.

Consumables

Dye Film	**MA300YMCKO** : 300 image YMCKO dye film. **MA250YMCKOK** : 250 image YMCKOK dye film (Double-sided). **MA600KO** : 600 image black resin dye film with overcoat. **MA1000K** : 1000 image black resin dye film. (various colours available)
Laminates	N/A.
Cards	All standard PVC ISO CR80 cards. HiCo mag stripe and HoloPatch available.

Security (Use driver settings to activate HoloKote).

Security watermark	Standard HoloKote® (4 standard designs).
Gold seal	HoloPatch® cardstock – ordered separately.

Encoding (Please specify when ordering).

Magnetic stripe	HiCo and LoCo encoder ISO std. 7811.
Smartcard encoder	N/A.
Contactless	N/A.

Printer

Printer interface	USB rev.1.1 (USB 2.0 compatible).
Drivers/software	Windows 2000, 2003, XP, Vista and 7.
Dimensions	**Enduro (Part No: 3633-0001), Enduro Duo (Part No: 3633-0021):** 206mm W x 206mm H x 453mm D (8.1" W x 9.2" H x 17.8" D).
Warranty	2 years limited warranty (EU and North America), Elsewhere 12 months limited warranty.

Operating Environment : Sheltered office environment 10° C to 30° C (50° F to 85° F) **Safety :** CE certified - UL listed (USA & Canada)

Rio 2e

Single-sided ID Card Printer.

The high security Rio 2e prints top quality images and offers customers an option for fully customisable HoloKote watermark protection. This 3rd generation model, with ethernet as standard, is the preferred printer for secure access control single-side cards.

PRINTER	•Single-sided secure printer
SECURITY	•HoloKote card forgery protection •Custom security logos and text •Prints on HoloPatch cards
ENCODING	•Magstripe/Contactless/Contact chip (optional)

Rio 2e Specifications

PROFESSIONAL SERIES

Printing

Print Technology	Dye sublimation.
Print Speed	Colour 22 seconds, 6 seconds monochrome.
Card Thickness	0.51mm to 1.6mm (20mil to 63mil).
Card Capacity	100 card feed hopper, 50 card output stacker.

Consumables

Dye Film	**LC1** : 350 image YMCKO dye film. **LC3** : 1000 image monochrome resin dye film (range of colours). **LC6** : 600 image KO dye film, (black resin and overcoat).
Laminates	N/A.
Cards	All standard PVC ISO CR80 cards. HiCo mag stripe and HoloPatch available.

Security (Use driver settings to activate HoloKote)

Security watermark	Standard (3 design options), or custom.
Gold seal	HoloPatch® cardstock ordered separately.

Ultra Secure™

Encoding (Optional Encoders may be ordered with select model printers if required)

Magnetic stripe	HiCo and LoCo encoder ISO std. 7811.
Smartcard encoder	Chip contact encoding facility.
Contactless	iClass, Desfire, Mifare, Legic.

Printer

Printer interface	USB rev.1.1 (USB 2.0 compatible) + Ethernet.
Drivers/software	Windows 2000, 2003, XP, Vista and 7.
Dimensions	**Rio 2e (Part No. M9006-749), : Rio M 2e (Part No. M9006-751),** 370mm W x 233mm H x 194mm D (14.5" W x 9.1" H x 7.6" D).
Warranty	3 years UltraCoverPlus warranty (EU, North America and selected other territories). Elsewhere 12 months limited warranty.

Tango 2e

Double-sided ID Card Printer.

High-throughput and high security. The robust double-sided Tango 2e prints top quality images and offers customers an option for fully customisable HoloKote watermark protection. This 3rd generation model, with ethernet as standard, is the preferred printer for secure access control double-sided cards.

PRINTER	•Double-sided secure printer
SECURITY	•HoloKote card forgery protection •Custom security logos and text •Prints on HoloPatch cards
ENCODING	•Magstripe/Contactless/Contact chip (optional)

Tango 2e Specifications

PROFESSIONAL SERIES

Printing

Print Technology	Dye sublimation.
Print Speed	Double-side color/black – 30 seconds.
Card Thickness	0.51mm to 1.6mm (20mil to 63mil).
Card Capacity	100 card feed hopper, 50 card output stacker.

Consumables

Dye Film	**LC1** : 350 image YMCKO dye film. **LC3** : 1000 image monochrome resin dye film (range of colours). **LC6** : 600 image KO dye film (black resin and overcoat). **LC8** : 300 image YMCKOK dye film.
Laminates	N/A.
Cards	-All standard PVC ISO CR80 cards. HiCo mag stripe and HoloPatch available.

Security (Use driver settings to activate HoloKote)

Security watermark	Standard (3 design options), or custom.
Gold seal	HoloPatch® cardstock ordered separately.

Ultra Secure™

Encoding (Optional Encoders may be ordered with select model printers if required)

Magnetic stripe	HiCo and LoCo encoder ISO std. 7811.
Smartcard encoder	Chip contact encoding facility.
Contactless	iClass, Desfire, Mifare, Legic.

Printer

Printer interface	USB rev.1.1 (USB 2.0 compatible) + Ethernet.
Drivers/software	Windows 2000, 2003, XP, Vista and 7.
Dimensions	**Tango 2e (Part No. M9006-745), Tango M 2e (Part No. M9006-747):** 471mm W x 233mm H x 194mm D (18.5" W x 9.1" H x 7.6" D).
Warranty	3 years UltraCoverPlus warranty (EU, North America and selected other territories). Elsewhere 12 months limited warranty.

Prima 4

Reverse-transfer laminating printer.

The Prima 4 uses reverse-transfer printing technology. Images are printed from a YMCK dye film onto a thin retransfer film in a "reverse image" then heat transferred onto the card. The Prima 4 produces superb edge-to-edge images with a glossy photo finish quality. Reverse transfer printing technology is ideal for smart cards and proximity cards where the surfaces are not consistently flat.

PRINTER	•Single-sided or double-sided
SECURITY	•Standard and Custom holograms
ENCODING	•Magstripe/Contactless/Contact chip (optional)

Prima 4 Specifications

PROFESSIONAL SERIES

Printing

Print Technology	Reverse-transfer.
Print Speed	Up to 80 cards per hour depending on settings.
Card Thickness	0.25 mmm to 1.0 mm (10 mil to 40 mil).
Card Capacity	100 cards in feed tray, 100 cards output stacker

Consumables

Dye Film	**Prima 431 :** Set of YMCK dye film and retransfer film - 1000 images. **Prima 433 :** 750 YMCKK full-colour one side and black on reverse. **Prima 434 :** 750 YMCK-UV full-colour and UV
Retransfer Film	**Prima 436 :** 1000 images (must be paired with dye film for printing).
Laminates	Thin, 0.5 mil and 1 mil laminates available. Clear and holographic.
Cards	PVC, ABS, PET, PVH, and Polycarbonate ISO Standard CR80 sized cards.

Security

Security mark	UV Hologram watermark in Retransfer film. Holographic laminates 0.5 mil to 1mil (Laminator unit option only).
Gold seal	N/A.

Encoding (Please specify when ordering)

Magnetic stripe	HiCo encoder ISO std. 7811 (Optional).
Smartcard encoder	Chip contact encoding facility.
Contactless	iClass, Desfire, Mifare, Legic.

Printer

Printer interface	USB 2.0 (high speed) + ethernet fitted as standard.
Drivers/software	Windows 2000 Professional (SP4), XP (SP2, SP3), Vista (SP1), Windows Server 2003 R2 SP2, Server 2008..
Dimensions	**Prima 4: (**Single-sided **: Prima401,** Double-sided **: Prima402)** 343mm W x 320mm H x 330mm D (13.5" W x 12.6" H x 13" D).
Warranty	3 years UltraCoverPlus warranty (EU, North America and selected other territories). Elsewhere 12 months limited warranty

Operating Environment : Sheltered office environment 10° C to 30° C (50° F to 85° F) **Safety :** CE certified - UL listed (USA & Canada)

CARD MAGICARD Secure ID card printers

	Pronto	Enduro	Rio 2e	Tango 2e	Prima 4
Printing					
Print technology	Dye sublimation/rewritable	Dye sublimation	Dye sublimation	Dye sublimation	Reverse-transfer
Feed System	Manual	Manual/automatic	Manual/automatic	Automatic	Automatic
Card capacity: hopper input / stacker output		100/30	100/50	100/50	100/100
Single-sided printer	3649-0001	3633-0001	M9006-749E		Prima 401
Double-sided printer		3633-0021		M9006-745E	Prima 402
Upgrade (single to double-sided)		3633-0052			
Encoding / Variants					
Mag stripe encoding ISO 7811 - tracks 1, 2 & 3	3649-0002 (Pronto MAG)	3633-0002 (Enduro) 3633-0022 (Enduro Duo)	M9006-751E	M9006-747E	Prima 421 (single-sided)
Mag Stripe HiCo / LoCo	●	●	●	●	●
Contact Chip encoding			●	●	●
Contactless Mifare/iClass encoding			●	●	●
Contactless Legic encoding			●	●	●
Other configurations available on request (HID-Gemplus-Etag-Inside Technologies)			●	●	●
Laminator					● (Module)
Connectivity and Drivers					
USB connection	●	●	●	●	●
Ethernet Connection			●	●	●
Windows 2000™/2003™/XP™/Vista™/7™	●	●	●	●	●
Warranty					
2 year limited	●	●			
3 years UltraCoverPlus - (FREE loaner service)			●	●	●
Printhead guarantee			3 years	3 years	Lifetime
Visual security					
HoloKote® watermark - standard design	4 standard designs	4 standard designs	Ultra Secure logo	Ultra Secure logo	
HoloKote® watermark - custom design			●	●	
Laminate (custom and stock Holographic)					●
UV film					●
HoloPatch®/Magstripe Cards	●	●	●	●	● (Magstripe only)
Print Speed					
Colour (seconds)	35	35	22	22	35-40 (depending on settings)
Monochrome (seconds)	7	7	6	6	
Card thickness (CR80 cards)					
mm	0.51 to 1.02	0.51 to 1.02	0.51 to 1.60	0.51 to 1.60	0.25 to 1
mil	20 to 40	20 to 40	20 to 63	20 to 63	10 to 40
Dimensions					
Width x Height x Depth : mm	215 x 233 x 270	206 x 233 x 453	194 x 233 x 370	194 x 233 x 471	343 x 320 x 330
Width x Height x Depth : inch	8.4 x 9.1 x 10.6	8.1 x 9.2 x 17.8	7.6 x 9.2 x 14.5	7.6 x 9.2 x 18.6	13.5 x 12.6 x 13
Weight Kg	4.4	5.5	7.2	8.3	15.5
Weight lb	9.7	12	15.8	18.3	34.1
Maintainance					
Cleaning Kit	CK1	3633-0053	M9005-761	M9005-761	Prima 491

BADGING SERIES

PROFESSIONAL SERIES

Use Original Magicard dye films for best performance and extended lifespan of your printer.

Magicard dye film and laminate selection guide

Print Capacity	Product Code	Pronto	Enduro	Rio 2e	Tango 2e	Prima 4
Colour dye film with overcoat panel (YMCKO)	300 MA300YMCKO	●	●			
Colour dye film with overcoat panel (YMCKO)	100 MA100YMCKO	●	●			
Double-sided dye film, prints colour on one side, black on reverse (YMCKOK)	250 MA250YMCKOK		●			
Black resin dye film with overcoat panel (KO)	600 MA600KO	●	●			
Monochrome resin dye film - Black	1000 MA1000K-Black	●	●			
Monochrome resin dye film - White	1000 MA1000K-White	●	●			
Monochrome resin dye film - Silver	1000 MA1000K-Silver	●	●			
Monochrome resin dye film - Gold	1000 MA1000K-Gold	●	●			
Monochrome resin dye film - Blue	1000 MA1000K-Blue	●	●			
Monochrome resin dye film - Red	1000 MA1000K-Red	●	●			
Monochrome resin dye film - Green	1000 MA1000K-Green	●	●			
Colour dye film with overcoat panel (YMCKO) - LC1	350 M9005-751			●	●	
Colour dye film with overcoat and black panel (YMCKOK), prints colour on one side, black on reverse - LC8	300 M9005-758				●	
Black resin dye film with overcoat panel (KO) - LC6	600 M9005-756			●	●	
Monochrome resin dye film (K) - Black	1000 M9005-753			●	●	
Monochrome resin dye film - Red - LC3	1000 M9005-751-1			●	●	
Monochrome resin dye film - Blue - LC3	1000 M9005-753-2			●	●	
Monochrome resin dye film - Green - LC3	1000 M9005-753-3			●	●	
Monochrome resin dye film - Gold - LC3	1000 M9005-753-5			●	●	
Monochrome resin dye film - Silver - LC3	1000 M9005-753-6			●	●	
Monochrome resin dye film - White - LC3	1000 M9005-753-7			●	●	
Set of YMCK dye film and reverse transfer film	1000 Prima 431					●
Colour dye film with additional black panel (YMCKK) - prints colour on one side and black on reverse	750 Prima 433					●
Colour dye film with UV panel (YMCK-UV)	750 Prima 434					●
Re-Transfer film (clear) - Pair with colour films	1000 Prima 436					●
Custom Holographic patch laminate films and overlay films	Special Order					●
Patch laminate (clear or holographic) for Prima laminator	Call for part numbers					●
Overlay thin film (holographic) for Prima laminator	Call for part numbers					●